

What is claimed is:

1. An ultrasonic bonding machine for bonding together the overlapped portions of a plurality of workpieces with ultrasonic vibration transmitted from a resonator by sandwiching the overlapped portions between the resonator mounted to a holder connected to a pressure unit and a mounting unit, wherein the holder comprises a rotation support unit for mounting the resonator having a plurality of bonding work faces in such a manner that it can turn with an axis in a vibration transmission direction as the center of rotation, and an angle indexing unit for fixing the resonator at an indexing angle in a circumferential direction with the axis in the vibration transmission direction of the plurality of bonding work faces as the center.
2. The ultrasonic bonding machine according to claim 1, wherein the angle indexing unit comprises an angle indexing body mounted to the holder in such a manner that it can move in a direction perpendicular to the axis in the vibration transmission direction, stoppers attached to the angle indexing body, and stopper portions formed in the rotation support unit and mated with the stoppers at an indexing angle of the plurality of bonding work faces.
3. The ultrasonic bonding machine according to claim

2, wherein the angle indexing unit comprises an operation body rotatably mounted to the holder, a cam fixed to the operation body and a guide for slidably mating the angle indexing body with the holder.

4. The ultrasonic bonding machine according to claim 1, wherein the angle indexing unit comprises a step motor mounted to the holder and a train of gears for transmitting the revolution of the step motor to the rotation support unit.

5. The ultrasonic bonding machine according to claim 4, wherein the train of gears consists of a small-diameter gear connected to the step motor and a large-diameter gear connected to the rotation support unit.

6. An ultrasonic bonding machine for bonding together overlapped portions of a plurality of workpieces with ultrasonic vibration transmitted from a resonator by sandwiching the overlapped portions between the resonator connected to a pressure unit and a mounting unit, wherein the mounting unit comprises a base, a mounting table, a bearing, composed of a spherical projection portion and a spherical depression portion, for mounting the mounting table to the base in such a manner that the mounting table can

make a follow-up movement, air supply means for forming a lubricant air layer between the mating faces of the spherical projection portion and the spherical depression portion, and fixing means including a mechanical lock for fixing the mounting table which has made a follow-up movement to the base as a separate unit from the air supply means.

7. An ultrasonic bonding machine for bonding together overlapped portions of a plurality of workpieces with ultrasonic vibration transmitted from a resonator by sandwiching the overlapped portions between the resonator connected to a pressure unit and a mounting unit, wherein a follow-up unit is provided in a portion for mounting the resonator to the pressure unit, and the follow-up unit comprises a bearing, composed of a spherical projection portion and a spherical depression portion, for mounting the resonator to the mounting table in such a manner that the mounting table can make a follow-up movement, air supply means for forming a lubricant air layer between the mating faces of the spherical projection portion and the spherical depression portion, and fixing means including a mechanical lock for fixing the mounting table which has made a follow-up movement to the base as a separate unit from the air supply means.

8. The ultrasonic bonding machine according to claim 6 or 7, wherein the fixing means comprises an air operation unit for enabling the mechanical lock to carry out clamping or unclamping operation with air.

9. The ultrasonic bonding machine according to claim 6 or 7, wherein the fixing means comprises a spring for enabling the mechanical lock to carry out clamping operation.